

TELUS Open Hack Services

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TELUS is providing three services for the 2017 TM Forum Open Hack, allowing you to create robust applications with a subset of the features available on the TELUS network. These services will allow you to:

1. Get Location Service
2. SMS Send Service
3. Get SMS Delivery Status Service

Using the Services

During the TM Forum Open Hack event, we are exposing these APIs through the [IBM Bluemix](#) platform as REST services. You will be using a pre-registered set of credentials, so ensure the following HTTP Header is set for all your REST calls:

X-IBM-Client-Id: c466530c-8489-4353-8cac-6c0babe8ff40

Get Location Service

This API allows you to look up the location of a device by its mobile phone number. This location service uses TELUS network triangulation to determine the GPS location of a device. In the event the device is not powered on or out of service area, this service will return its last known location.

REST API

GET <https://api.us.apiconnect.ibmcloud.com/tmforum-apidev/telustmfcatalog/telustmfapilocation/location/{address}>

Where **{address}** is the phone number of the device you want to locate. This service call is restricted and secured so that only whitelisted phone numbers can be accessed by a service account. For the purpose of this Open Hack event, you can use any of the following test numbers:

- 6045550000
- 6045550001
- 6045550002
- 6045550003
- 6045550004
- 6045550005
- 6045550006
- 6045550007
- 6045550008
- 6045550009

Response

The response is a JSON object with the following attributes:

address	The device phone number
timestamp	Last location timestamp
latitude	Device network location latitude
longitude	Device network location longitude
altitude	Device network location altitude / elevation
accuracy	Device network location accuracy (in meters)

Sample Call

```
curl https://api.us.apiconnect.ibmcloud.com/tmforum-apidev/telustmfcatalog/telustmfapilocation/location/6045550000 \
-H "Content-type: application/json" \
-H "X-IBM-Client-Id: c466530c-8489-4353-8cac-6c0babe8ff40"
```

Sample Response

```
{
  "address": "6045550000",
  "timestamp": "Mon, 18 Sep 2017 03:39:36 +0000",
  "latitude": "49.237774",
  "longitude": "-123.017636",
  "altitude": "22.0",
  "accuracy": "182"
}
```

Error Messages

Client id is missing	Client credentials are missing (HTTP header X-IBM-Client-Id is missing)
Client id not registered	Client credentials are invalid (invalid value for HTTP header X-IBM-Client-Id)
Missing terminal address	Address / phone number parameter is missing
Terminal address not authorized	Address / phone number is not whitelisted for use by your application

Send SMS Service

This service allows you to send an SMS message through your application. For the TM Forum Open Hack, this service is sandboxed for security purposes. You can send an SMS to the test numbers (6045550000, 6045550001), or to your own number. Please contact a TELUS representative to whitelist your number.

REST API

POST <https://api.us.apiconnect.ibmcloud.com/tmforum-apidev/telustmfcatalog/telustmfapisendsms/send>

The post body is a JSON formatted object with 2 parameters:

address	The destination phone number (6045550000, 6045550001, or your own whitelisted number)
message	The SMS message to deliver, up to a maximum length of 1000 characters

Response

The response is a JSON object containing the correlator, a unique identifier that you can use to look up the message delivery status at a later time.

Sample Call

```
curl https://api.us.apiconnect.ibmcloud.com/tmforum-apidev/telustmfcatalog/telustmfapisendsms/send \
-H "Content-type: application/json" \
-H "X-IBM-Client-Id: c466530c-8489-4353-8cac-6c0babe8ff40" \
-X POST -d '{"address": "6045550000", "message": "Sample SMS message"}'
```

Sample Response

```
{
  "correlator": 90050000
}
```

Error Messages

Client id is missing	Client credentials are missing (HTTP header X-IBM-Client-Id is missing)
Client id not registered	Client credentials are invalid (invalid value for HTTP header X-IBM-Client-Id)

Missing recipient address	Address / phone number parameter is missing
Invalid recipient address	Address / phone number is invalid, or not allowed
Missing message body	Message body is missing
Message exceeds 1000 characters	Message body is too long (exceeds 1000 characters)

Get SMS Delivery Status

This service is to be used to retrieve the delivery status of an SMS message you previously sent.

REST API

GET <https://api.us.apiconnect.ibmcloud.com/tmforum-apidev/telustmfcatalog/telustmfapistatussms/status/{correlator}>

Where **{correlator}** is the correlator ID returned from a successful SMS delivery API call.

Response

The response is a JSON object with the following attributes:

address	The phone number the message was delivered to
deliveryStatus	The status of the SMS (DeliveredToTerminal or Queued)

Sample Call

```
curl https://api.us.apiconnect.ibmcloud.com/tmforum-apidev/telustmfcatalog/telustmfapistatussms/status/90050000 \
-H "Content-type: application/json" \
-H "X-IBM-Client-Id: c466530c-8489-4353-8cac-6c0babe8ff40"
```

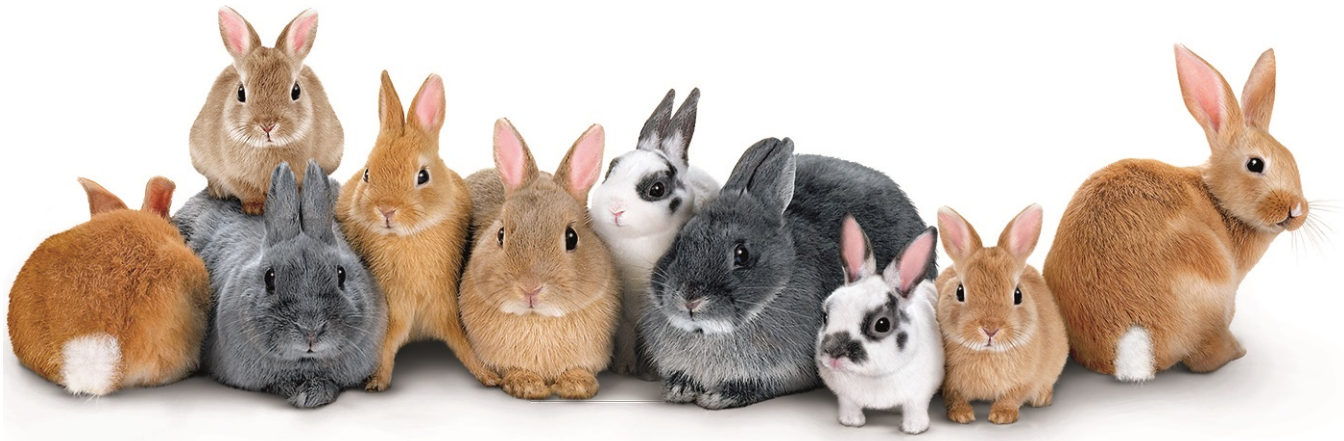
Sample Response

```
{
  "address": "6045550000",
  "deliveryStatus": "DeliveredToTerminal"
}
```

Error Messages

Client id is missing	Client credentials are missing (HTTP header X-IBM-Client-Id is missing)
Client id not registered	Client credentials are invalid (invalid value for HTTP header X-IBM-Client-Id)
Missing correlator ID	Correlator parameter is missing
Invalid correlator	Correlator ID is invalid or was not sent by your application

The APIs provided for the TM Forum Open Hack are a subset of the programmable services available at TELUS. To learn more about the full set of APIs provided by TELUS, visit the [TELUS Network APIs](#) site.



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